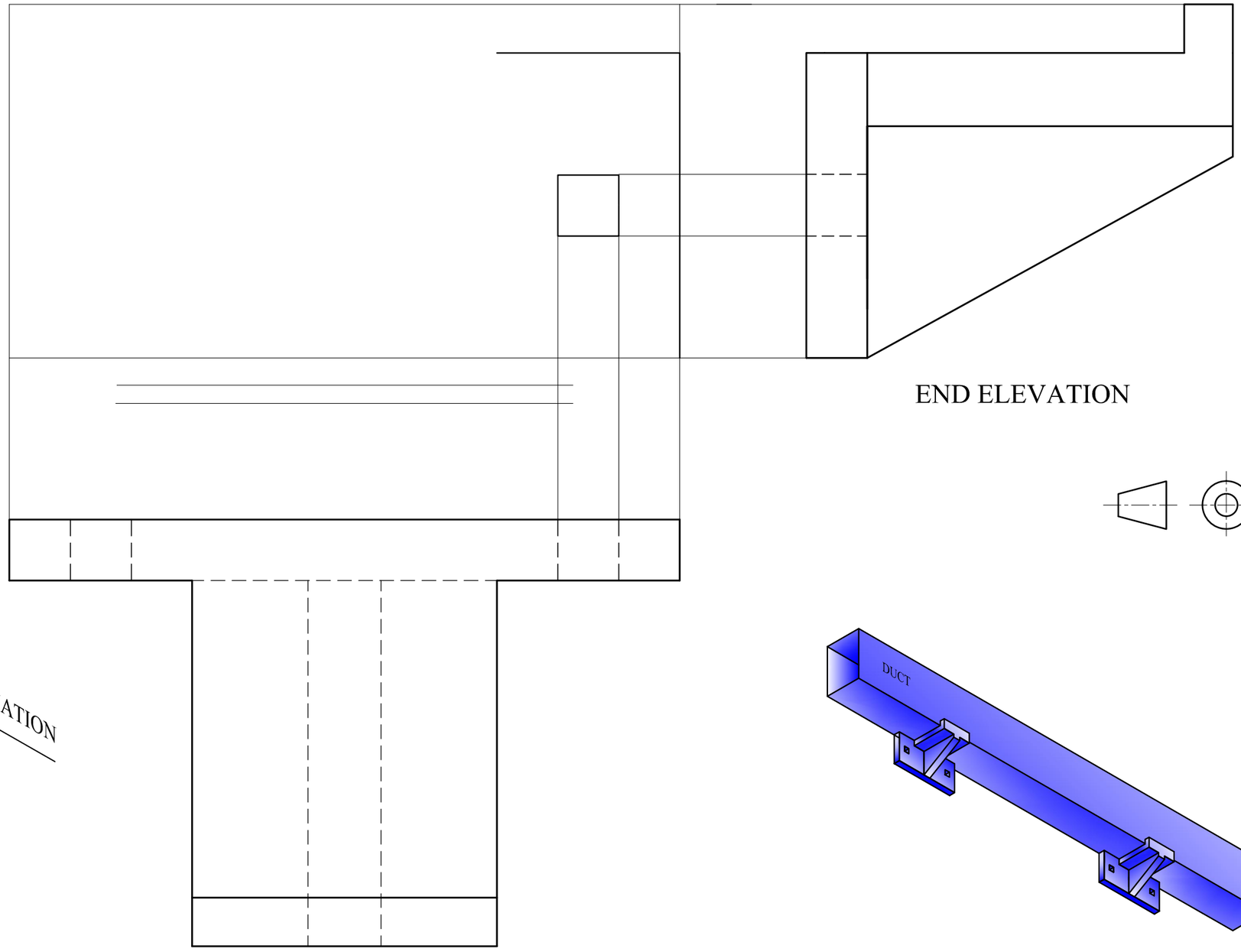
QUESTION No. 1

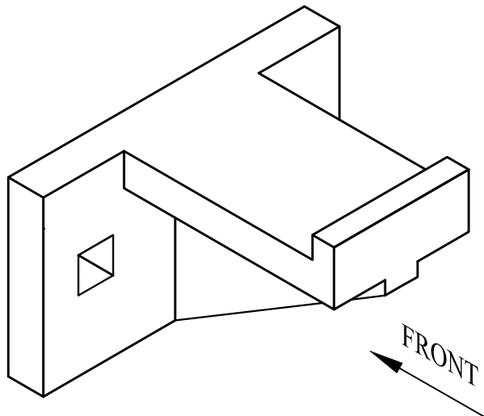
An end elevation, a plan, an incomplete front elevation and pictorial views of an **angle bracket** used to support a rectangular duct, are given.
By projecting lines from the end elevation and plan, complete the **front elevation** of the bracket as indicated by the arrow. Include hidden details.
Label your front elevation in block letters.

18 marks

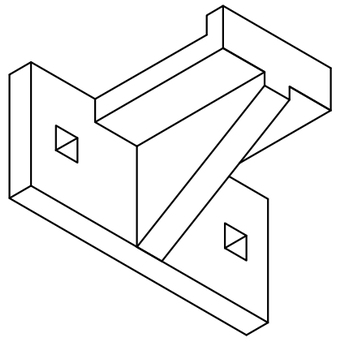


END ELEVATION

PLAN



FRONT ELEVATION



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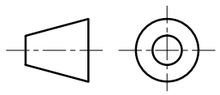
GRAPHICAL COMMUNICATION

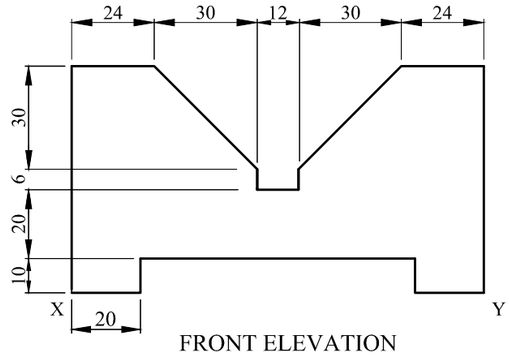
Class:

QUESTION No. 2

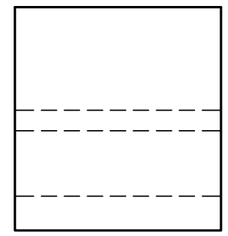
Three orthographic views and an oblique projection of a **vee-block** used to support round bars are shown. To the dimensions given, complete the **isometric projection** of the vee-block started below.

18 marks

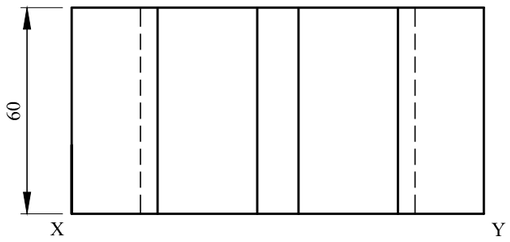




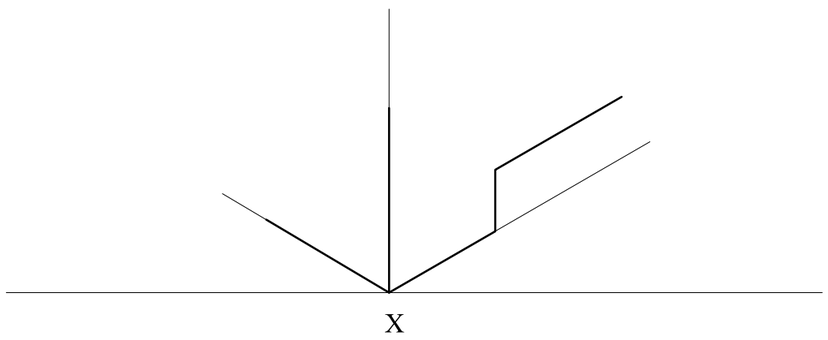
FRONT ELEVATION



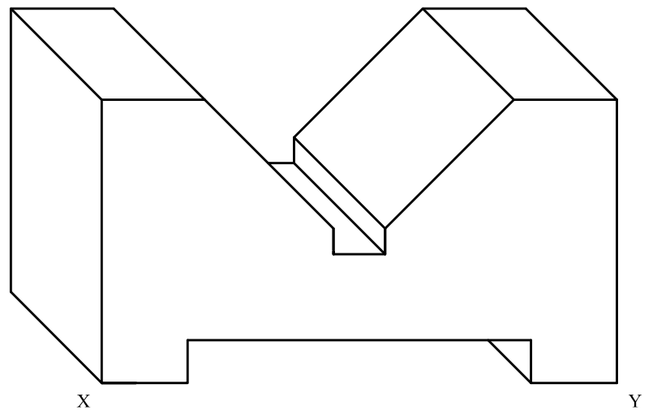
END ELEVATION



PLAN



ISOMETRIC PROJECTION



OBLIQUE PROJECTION (Not to scale)

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GRAPHICAL COMMUNICATION

Class:

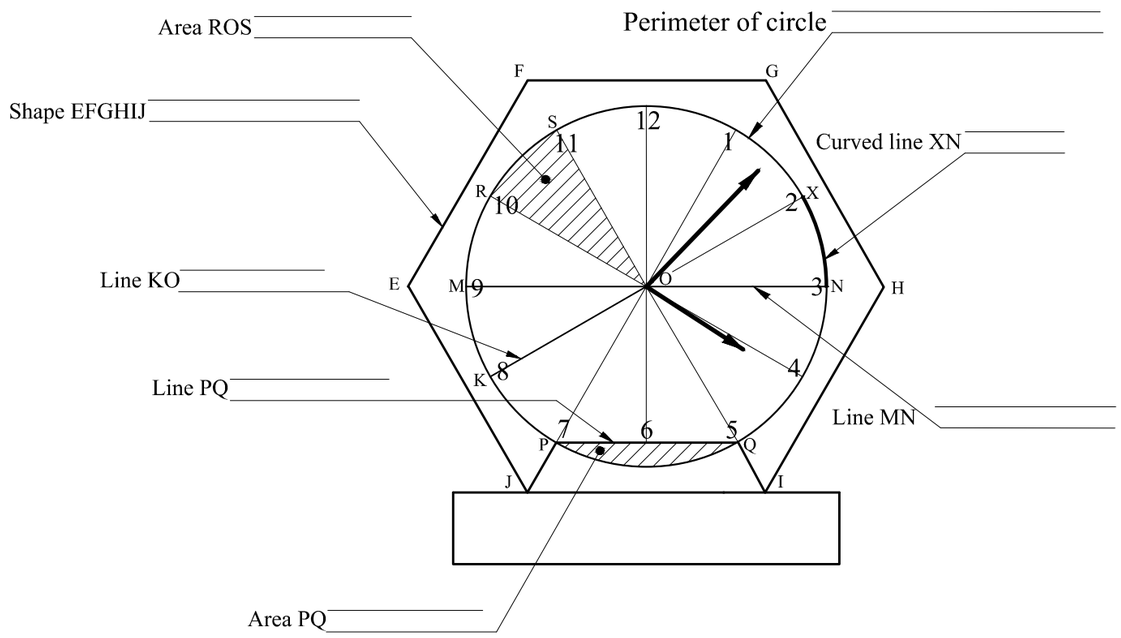
QUESTION No. 3

(i) The drawing shows a clock on a stand. It is made up of different lines and shapes. Within the given guide lines, write down in block letters, the names of the following parts of the circle:

- line KO
- line MN
- line PQ
- area PQ
- area ROS
- curved line XN
- the perimeter of the circle

(ii) Write down the name of the shape bound by EFGHIJ.

14 marks



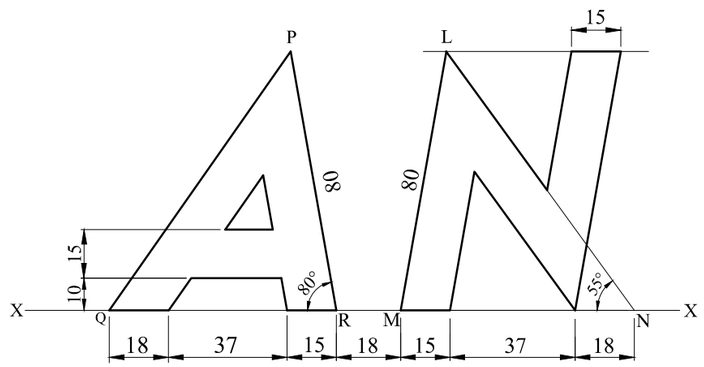
QUESTION No. 4

The figure below shows the logo of a company selling boat electronic equipment called *Arbor Navigation*. You are required to draw the logo consisting of the two letters A and N using the following instructions:

(a) to draw letter A: on line XX, start by constructing a triangle PQR where base QR is 70mm, angle R is 80° and PR is 80mm. Finish the letter using the given dimensions.

(b) to draw letter N: on the same line XX, start by constructing a triangle LMN where MN is 70mm, angle N is 55° and LM is 80mm. Finish the letter using the given dimensions.

18 marks



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GRAPHICAL COMMUNICATION

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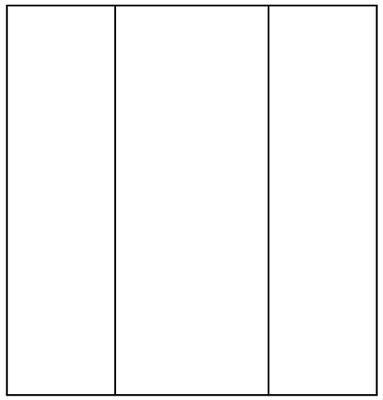
QUESTION No. 5

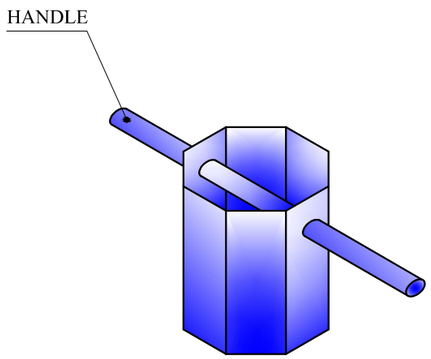
A pictorial view and a front elevation of a special key having the shape of an **octagonal prism** and used to adjust the spoiler of a sports car are shown.
Ignoring the handle,
(i) draw the plan of the key by constructing a **regular octagon** on the given base BC.
(ii) Draw the development using the given start lines.

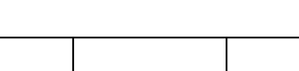
16 marks



FRONT ELEVATION

DEVELOPMENT



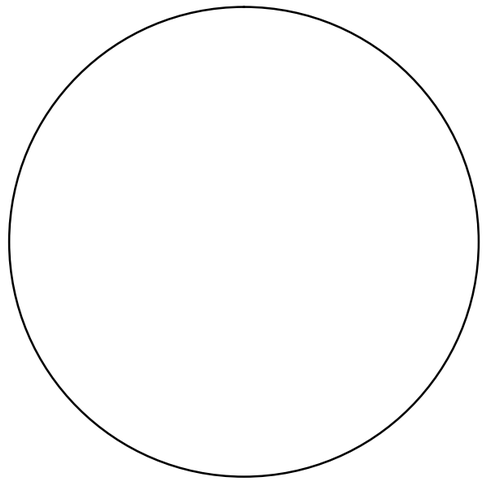


PLAN

QUESTION No. 6

Some of the buses in Malta have passenger seats facing each other.
A prohibition sign is required on these buses which informs passengers that they must not rest their feet on the seats in front of them.
(i) Draw preliminary freehand sketches to develop the above idea.
(ii) Using your sketches and making use of drawing instruments, make a final drawing of a **prohibition sign,** within the given circle, to inform passengers not to put their feet on the seat facing them.
Note: Marks will be given for the correct type of sign and for the use of the right colours.

16 marks



PROHIBITION SIGN

PRELIMINARY SKETCHES

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GRAPHICAL COMMUNICATION

Class: